

Claims

[c1] What is claimed is:

1. An image capturing apparatus with a laser-framing viewfinder, the image capturing apparatus comprising:
a housing;
a laser source installed inside the housing for generating a laser beam;
a first lens installed inside the housing for diverging the laser beam;
a framing mask for masking the laser beam diverged by the first lens to form a laser-framing viewfinder; and
a camera lens installed on the housing for capturing an object in the laser-framing viewfinder.

[c2] 2. The image capturing apparatus of claim 1 further comprising a reflector installed inside the housing for reflecting the laser beam generated by the laser source.

[c3] 3. The image capturing apparatus of claim 2 wherein the reflector is a plane mirror that can be adjusted on the housing.

[c4] 4. The image capturing apparatus of claim 1 wherein the housing comprises a main body and a sliding set in-

stalled on the main body, and the laser source and the first lens are installed inside the main body and the sliding set respectively.

- [c5] 5.The image capturing apparatus of claim 1 further comprising two optical viewfinders installed on the housing for receiving light to view an object being image captured.
- [c6] 6.The image capturing apparatus of claim 5 further comprising a second lens set installed on the sliding set, wherein the second lens set can slide to a position between the two optical viewfinders with the sliding set.
- [c7] 7.The image capturing apparatus of claim 6 wherein the second lens set comprises a plano-concave lens and a convexo-concave lens.
- [c8] 8.The image capturing apparatus of claim 1 wherein the framing mask comprises shading material.
- [c9] 9.The image capturing apparatus of claim 1 further comprising a connecting port for outputting image data.
- [c10] 10.The image capturing apparatus of claim 9 wherein the connecting port conforms to the USB or the IEEE1394 standards.
- [c11] 11.An image capturing apparatus with a laser-framing

viewfinder, the image capturing apparatus comprising:

- a housing comprising a main body and a sliding set installed on the main body;
- a laser source installed inside the main body for generating a laser beam;
- a first lens installed inside the sliding set for diverging the laser beam;
- a framing mask for masking the laser beam diverged by the first lens to form a laser-framing viewfinder;
- two optical viewfinders installed on the main body;
- a second lens set installed on the sliding set, which can slide to the position between the two optical viewfinders with the sliding set; and
- a camera lens installed on the housing for capturing an object;

wherein when the sliding set is positioned in the housing, the laser source is switched on, the first lens diverges the laser beam to the framing mask to form a laser-framing viewfinder, and the camera lens captures the object in the laser-framing viewfinder, and when the sliding set slides upwards in the housing, the second lens set slides between the two optical viewfinders, the laser source is switched off, the two optical viewfinders are used for viewing the object, and the camera lens captures the image in the optical viewfinders.

- [c12] 12.The image capturing apparatus of claim 11 further comprising a reflector that can be adjusted inside the housing for reflecting the laser beam generated by the laser source.
- [c13] 13.The image capturing apparatus of claim 11 wherein the reflector is a plane mirror.
- [c14] 14.The image capturing apparatus of claim 11 wherein the framing mask comprises shading material.
- [c15] 15.The image capturing apparatus of claim 11 further comprising a connecting port for outputting image data.